

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A system for switching a communication mode of a detachable pad refrigerator, comprising:

a client pad configured to detachably attached attach to an outer a surface of said refrigerator;

a communication module installed in said refrigerator that transmits and receives signals ~~to/from~~ to and from said client pad by wire or wirelessly;

a contact switch, provided at a location on the outer surface of said refrigerator, which said client pad contacts, said contact switch sensing whether said client pad is attached to said refrigerator; and

a refrigerator ~~control unit~~ controller that controls said communication module to automatically switch said communication mode of said refrigerator with said client pad ~~to~~ between a ~~wired/wireless~~ wired communication mode and a wireless communication mode according to the ~~attachment/detachment of whether~~ whether said client pad is attached to said refrigerator.

2. (Currently Amended) The system as set forth in claim 1, further comprising:

~~a contact switch provided at a portion of the outer surface of said refrigerator with which said client pad is brought into contact, said contact switch being turned on/off according to the attachment/detachment of said client pad;~~
and

an input/output sensor electrically connected with said contact switch, said sensor sensing an on/off state of said contact switch and transferring the a sensed result to said refrigerator ~~control unit~~ controller.

3. (Currently Amended) The system as set forth in claim 2, wherein said contact switch is connected to a power supply voltage source to apply a ~~desired~~ voltage to said refrigerator ~~control unit~~ controller when it is turned on.

4. (Currently Amended) The system as set forth in claim 1, ~~further comprising a contact switch provided at a portion of the outer surface of said refrigerator with which said client pad is brought into contact, wherein said~~ contact switch ~~being~~ is turned ~~on/off~~ on and off according to the ~~attachment/detachment of~~ whether said client pad is attached to said refrigerator and is electrically connected with said refrigerator ~~control unit~~ controller when it is turned on.

5. (Currently Amended) The system as set forth in claim 1, wherein said communication module includes:

a wired communication module that transmits and receives signals ~~to/from~~ to and from said client pad in said wired communication mode when said client pad is attached to said refrigerator; and

a wireless communication module that transmits and receives signals ~~to/from~~ to and from said client pad in said wireless communication mode when said client pad is detached from said refrigerator.

6. (Currently Amended) The system as set forth in claim 5, wherein said communication module ~~means~~ further includes an Internet modem ~~for transmitting and receiving~~ that transmits and receives signals to/from an external system over the Internet.

7. (Currently Amended) The system as set forth in claim 1, wherein said refrigerator control unit includes:

a main controller ~~for transmitting and receiving~~ that transmits and receives signals to/from one or more clients connected to a home network ~~constructed~~ provided in a building to perform a home server function; and

an input/output control hub ~~for controlling~~ that controls said communication module to switch said communication mode of said refrigerator to said wired/wireless communication mode according to the attachment/detachment of said client pad.

8. (Currently Amended) The system as set forth in claim 1, wherein said client pad includes:

a wired communication module ~~for transmitting and receiving~~ that transmit and receives signals ~~to/from~~ to and from said refrigerator ~~control unit~~ controller by wire when said client pad is attached to said refrigerator;

a wireless communication module that wirelessly transmits and receives signals ~~to/from~~ to and from said refrigerator ~~control unit~~ controller when said client pad is detached from said refrigerator;

a controller that controls operations based on the signals transmitted and received ~~to/from~~ to and from said refrigerator ~~control unit~~ controller through said

wired communication module or wireless communication module; and

an output unit that displays operation results based on the control of said controller.

9. (Currently Amended) The system as set forth in claim 8, wherein said client pad further includes an input unit, said input unit having ~~one or more buttons~~ at least one button for directly inputting a user's control commands.

10. (Original) The system as set forth in claim 8, wherein said client pad further includes an input unit configured integrally with said output unit for forming a touch panel enabling a touch input.

11. (Currently Amended) A method for switching a communication mode of a detachable pad refrigerator, comprising:

sensing ~~attachment/detachment of~~ whether a client pad ~~to/from~~ is attached to said refrigerator according to an on/off state of a contact switch;

enabling a wired communication module ~~if the attachment of said client pad~~ when it is sensed that the client pad is attached to said refrigerator, and enabling a wireless communication module ~~if the detachment of said client pad~~ when it is sensed that the client pad is not attached to said refrigerator;

transmitting and receiving signals ~~to/from~~ to and from said client pad through said wired communication module or wireless communication module; and

controlling an operation of said client pad and externally outputting results of the operation control.

12. (New) A system for switching a communication mode of a refrigerator, comprising:

a client pad configured to detachably attach to said refrigerator;

a communication module, installed in said refrigerator, that communicates with said client pad via a wired connection in a wired communication mode and via a wireless connection in a wireless communication mode;

an attachment sensor, provided on the refrigerator, which senses whether said client pad is attached to said refrigerator; and

a refrigerator controller that switches said a communication mode of the communication module between said wired communication mode and said wireless communication mode based on an output of the attachment sensor.

13. (New) The system according to claim 12, wherein the refrigerator controller switches the communication mode of the communication module to the wired communication mode when the attachment sensor senses that the client pad is attached to the refrigerator, and switches the communication mode of the communication module to the wireless communication mode when the attachment sensor senses that the client pad is not attached to the refrigerator.

14. (New) The system according to claim 12, wherein the refrigerator controller is configured to establish a connection between the client pad and a network, and maintain the connection between the client pad and the network when said refrigerator controller switches the communication mode of the communication module between said wired communication mode and said wireless communication mode.

15. (New) The system according to claim 1, wherein the refrigerator controller is configured to establish a connection between the client pad and a network, and maintain the connection between the client pad and the network when said refrigerator controller switches the communication mode of the communication module between said wired communication mode and said wireless communication mode.